IN THE CLAIMS:

The pending claims are set forth below and have been amended and/or cancelled, without prejudice, where noted:

1. (Cancelled)

2. (Currently Amended) The composition of claim ~~1~~ 51, wherein R' is a $C_1 - C_4$ alkyl group or an ~~mononuclear~~ aryl group which ~~may be~~ is substituted or unsubstituted and R" is a $C_1 - C_4$ alkyl group or an ~~mononuclear~~ aryl group which ~~may be~~ is substituted or unsubstituted.

3. (Currently Amended) The composition of claim ~~1~~ 51, wherein M is a transition metal selected from groups 8 –10 of the Periodic Table.

4. (Original) The composition of claim 3 wherein M is iron or cobalt and n is 2.

5. (Currently Amended) The composition of claim ~~1~~ 51, wherein A_1 is a an unsubstituted phenyl group or a mono-substituted, di-substituted or tri-substituted phenyl group.

6. (Currently Amended) The composition of claim 5 wherein A_1 is a phenyl group which is mono-substituted at the para ~~directly distal~~ position.

7. (Currently Amended) The composition of claim 5 wherein A_1 is a di-substituted phenyl group substituted at the ortho ~~proximal~~ positions with $C_1 - C_4$ alkyl groups or is a tri-substituted phenyl group substituted with a $C_1 - C_4$ alkyl group at the para ~~directly distal~~ position and $C_1 - C_4$ alkyl groups at the ortho ~~proximal~~ positions.

8. (Currently Amended) The composition of claim 7 wherein A_2 is a terphenyl group which ~~may be~~ is substituted or unsubstituted.

9. (Currently Amended) The composition of claim 8 wherein A_2 is a terphenyl group wherein the substituent phenyl groups are substituted on the primary phenyl ~~benzyl~~ group at the ~~proximal~~ ortho positions with respect to the coordinating nitrogen ion.

10. (Currently Amended) The composition of claim 9 wherein both of the substituted phenyl groups of A_2 are substituted at the para positions with $C_1 - C_4$ alkyl groups.

11. (Cancelled)

12. (Currently Amended) The composition of claim ~~11~~ 52, wherein M is iron or cobalt.

13. (Currently Amended) The composition of claim ~~11~~ 52, wherein A_1 is a di-substituted phenyl group which is di-substituted at the ortho ~~proximal~~ positions with $C_1 - C_4$ alkyl groups.

14. (Original) The composition of claim 13 wherein A_2 is a terphenyl group which may be substituted or unsubstituted.

15. (Currently Amended) The composition of claim 13 wherein A_1 is di-substituted at the ~~proximal~~ ortho positions with isopropyl groups.

16. (Currently Amended) The composition of claim ~~11~~ 52, wherein A_1 is di-substituted at the ~~proximal~~ ortho positions with $C_1 - C_4$ alkyl groups ~~and A_2 is a polynuclear aromatic group~~.

17. (Currently Amended) The composition of claim 16 wherein A_2 is a terphenyl group wherein the substituent phenyl groups are substituted on the primary phenyl ~~benzyl~~ group at the ~~proximal~~ ortho positions with respect to the coordinating nitrogen ion.

18. (Currently Amended) The composition of claim 17 wherein both of the substituted phenyl groups of A_2 are substituted at the para positions with $C_2 - C_4$ alkyl groups having a higher molecular weight than the substituents of A_1.

19. (Cancelled)

20. (Currently Amended) The composition of claim ~~19~~ 53, wherein R_2 is an isopropyl ~~a isopropylene~~ group.

21. (Original) The composition of claim 20 wherein R_4 is hydrogen.

22. Currently Amended) The composition of claim ~~19~~ 53, wherein Q is chlorine.

23. (Cancelled)

24. (Currently Amended) The composition of claim ~~23~~ 54, wherein R_4 has a higher molecular weight than R_2.

25. (Currently Amended) The composition of claim ~~23~~ 54, wherein R_2 is a methyl group.

26. (Original) The composition of claim 25 wherein R_4 is an isopropyl or tertiary butyl group.

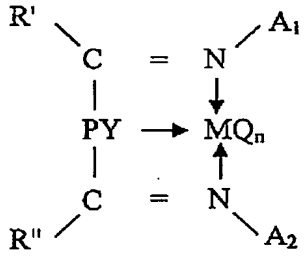
27. (Original) The composition of claim 26 wherein R_4 is a tertiary butyl group.

28. (Original) The composition of claim 27 wherein Q is chlorine.

29. (Original) The composition of claim 28 wherein R_1 is a methyl group.

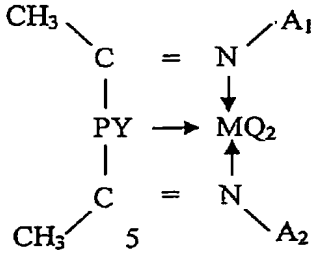
Claims 30-50. (Cancelled)

51. (New) An olefin polymerization catalyst precursor composition comprising a C_s symmetric catalyst precursor characterized by the formula:



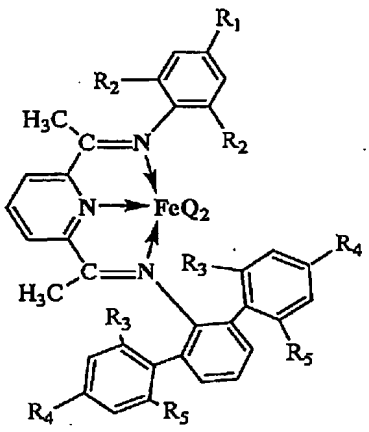
wherein M is a transition metal selected from groups 8 to 10 of the Periodic Table; n is an integer of from 1 to 3; Q is a halogen or a C_1 to C_2 alkyl group; PY is a pyridinyl group, which is coordinated with M through the nitrogen atom of said pyridinyl group; R' is a C_1 to C_{20} hydrocarbyl group; R" is a C_1 to C_{20} hydrocarbyl group; A_1 is a monoaromatic group, which is substituted or unsubstituted; and A_2 comprises multiple aromatic groups, which is substituted or unsubstituted, wherein the C=N bonded groups are excluded from A_1 and A_2.

52. (New) An olefin polymerization catalyst precursor composition comprising a C_s symmetric catalyst component characterized by the formula:



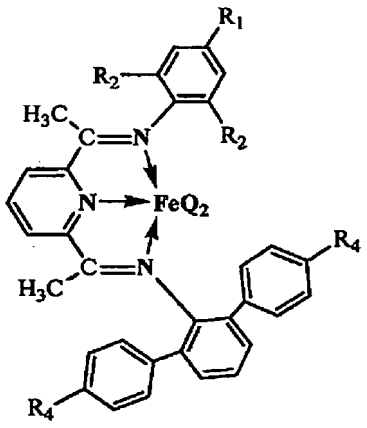
wherein M is a transition metal selected from the group consisting of iron, cobalt, nickel and copper; Q is a halogen or a $C_1 - C_2$ alkyl group; PY is a pyridinyl group, which is coordinated with M through the nitrogen atom of said pyridinyl group; A_1 is an aromatic group which is substituted or unsubstituted; and A_2 is an aromatic group, which is substituted to provide a structure which is sterically different from A_1 and wherein the C=N bonded groups are excluded from A_1 and A_2.

53. (New) An olefin polymerization catalyst precursor composition comprising a C_s symmetric catalyst component characterized by the formula:



wherein Q is a halogen or a $C_1 - C_2$ alkyl group; R_1 is a H or $C_1 - C_4$ alkyl group; R_2 is a $C_1 - C_4$ alkyl group; R_3 is hydrogen or a $C_1 - C_4$ alkyl group; R_5 is hydrogen or a $C_1 - C_4$ alkyl group which is the same as or different from R_3; R_4 is hydrogen or a $C_1 - C_4$ alkyl group.

54. (New) An olefin polymerization catalyst precursor composition comprising a C_s symmetric catalyst component characterized by the formula:



wherein Q is a halogen or a $C_1 - C_2$ alkyl group; R_1 is a hydrogen or a methyl group; R_2 is a methyl or isopropyl group; and R_4 is a $C_1 - C_4$ alkyl group.